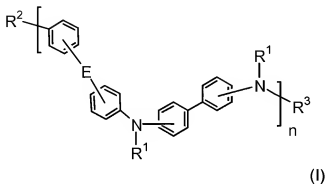


### Listing of Claims

1 (currently amended). A compound having the formula:



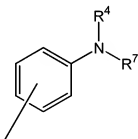
wherein:

n is an integer of at least 1;

R<sup>1</sup> is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms;

R<sup>3</sup> is selected from H and R<sup>1</sup>;

R<sup>2</sup> is selected from H, R<sup>1</sup>, alkyl, fluoroalkyl, Cl, Br, I and an arylamino group of formula (II),



wherein R<sup>4</sup> is selected from aryl, H, R<sup>1</sup>, alkyl, and fluoroalkyl;

R<sup>7</sup> is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms, preferably up to 7 fluorine atoms; and

E is selected from O, S,  $(\text{SiR}^5\text{R}^6)_m$  wherein m is an integer of 1 to 20,  $(\text{CR}^5\text{R}^6)_m$  wherein m is an integer of 1 to 20, and combinations thereof, wherein  $\text{R}^5$  and  $\text{R}^6$  are each independently selected from H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy and wherein  $\text{R}^5$  and  $\text{R}^6$  can, when taken together, form a ring, provided that when E is  $(\text{CR}^5\text{R}^6)_m$ , and m is 1, at least one of  $\text{R}^5$  and  $\text{R}^6$  is not hydrogen or a hydrocarbon, and provided that when E is  $(\text{SiR}^5\text{R}^6)_m$  and m is 1,  $\text{R}^3$  is selected from 1-naphthyl and 2-naphthyl.

2 (original). The compound of claim 1, and wherein  $\text{R}^5$  and  $\text{R}^6$ , when taken together, form a non-aromatic ring.

3 (original). The compound of claim 1 wherein n is greater than 1.

4 (original). The compound of claim 2 wherein  $\text{R}^1$  is different at each occurrence.

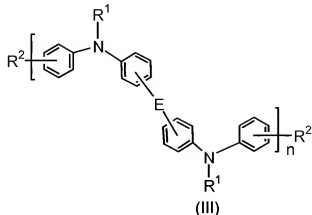
5 (original). The compound of claim 1 wherein  $\text{R}^2$  is H.

6 (original). The composition of claim 5 wherein  $\text{R}^3$  is aryl.

7 (original). The compound of claim 1 wherein  $\text{R}^1$  is selected from phenyl, 1-naphthyl, and 2-naphthyl.

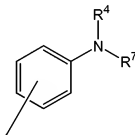
8 (original). The compound of claim 1 wherein  $n = 1$ ,  $\text{R}^2$  is H, and  $\text{R}^3$  is selected from phenyl, 1-naphthyl, and 2-naphthyl.

9 (currently amended). A compound of formula (III):



wherein

n is an integer of at least 1,  $R^1$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl;  $R^2$  is selected from H,  $R^1$ , alkyl, fluoroalkyl, Cl, Br, I and arylamino of formula (II)



$R^4$  is selected from aryl, H,  $R^1$ , alkyl, fluoroalkyl;  $R^7$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms[[.]] preferably up to 7 fluorine atoms; and

E is selected from O, S,  $(SiR^5R^6)_m$  wherein m is an integer of 1 to 20,  $(CR^5R^6)_m$  wherein m is an integer of 1 to 20, and combinations thereof, and can be different at each occurrence, wherein  $R^5$  and  $R^6$  are each independently selected from H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy and wherein  $R^5$  and  $R^6$  can, when taken together, form a ring, provided that when E is  $(CR^5R^6)_m$ , and m is 1, then n is greater than 1 and at least one of  $R^5$  and  $R^6$  is not hydrogen or a hydrocarbon, and when E = O or S,  $R^2$  is not H; [[and]]

wherein substituents on any one or more aromatic rings in the compound of formula (III) are selected from the group consisting of H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy; and  
R<sup>1</sup> is different at each occurrence.

10 (canceled).

11 (original). The compound of claim 9, wherein R<sup>5</sup> and R<sup>6</sup>, when taken together, form a non-aromatic ring.

12 (canceled)

13 (previously presented). The compound of claim 9 wherein R<sup>2</sup> is aryl.

14 (original). The compound of claim 9 wherein R<sup>4</sup> is aryl.

15 (original). The compound of claim 9 wherein R<sup>1</sup> is selected from phenyl, 1-naphthyl, and 2-naphthyl.

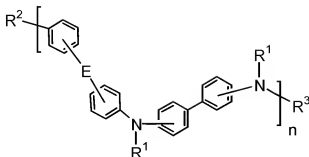
16 (previously presented). The compound of claim 9 wherein n = 1, R<sup>2</sup> is H, and R<sup>1</sup> is selected from phenyl, 1-naphthyl, and 2-naphthyl.

17 (previously presented). The compound of claim 9 wherein at least one aromatic ring in the compound of formula (III) has a substituent.

18 (original). The compound of claim 9 wherein substituents on two neighboring aromatic rings in the compound of formula (III) together form an aromatic or non-aromatic ring.

19 (original). The compound of claim 9 wherein adjacent substituents on at least one aromatic ring together form a fused aromatic or non-aromatic ring.

20 (currently amended). A composition comprising a compound of at least one compound selected from:



(I)

wherein:

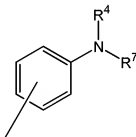
n is an integer of at least 1;

R<sup>1</sup> is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms;

R<sup>3</sup> is selected from H and R<sup>1</sup>;

R<sup>2</sup> is selected from H, R<sup>1</sup>, alkyl, fluoroalkyl, Cl, Br, I and an arylamino group of formula (II),

(II)



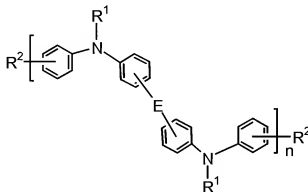
wherein R<sup>4</sup> is selected from aryl, H, R<sup>1</sup>, alkyl, and fluoroalkyl;

R<sup>7</sup> is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms, preferably up to 7 fluorine atoms; and

E is selected from O, S, (SiR<sup>5</sup>R<sup>6</sup>)<sub>m</sub> wherein m is an integer of 1 to 20, (CR<sup>5</sup>R<sup>6</sup>)<sub>m</sub> wherein m is an integer of 1 to 20, and combinations thereof, wherein R<sup>5</sup> and R<sup>6</sup> are each independently selected from H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy and wherein R<sup>5</sup> and R<sup>6</sup> can, when taken together, form a

ring, provided that when E is  $(CR^5R^6)_m$ , and m is 1, at least one of  $R^5$  and  $R^6$  is not hydrogen or a hydrocarbon, and provided that when E is  $(SiR^5R^6)_m$  and m is 1,  $R^3$  is selected from 1-naphthyl and 2-naphthyl.

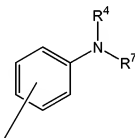
and



(III)

wherein

n is an integer of at least 1,  $R^1$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl;  $R^2$  is selected from H,  $R^1$ , alkyl, fluoroalkyl, Cl, Br, I and arylamino of formula (II)



(II)

$R^4$  is selected from aryl, H,  $R^1$ , alkyl, fluoroalkyl;  $R^7$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms, preferably up to 7 fluorine atoms; and

E is selected from O, S,  $(SiR^5R^6)_m$  wherein m is an integer of 1 to 20,  $(CR^5R^6)_m$  wherein m is an integer of 1 to 20, and combinations thereof, and can be different at each occurrence, wherein  $R^5$  and  $R^6$  are each independently selected from

H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy and wherein  $R^5$  and  $R^6$  can, when taken together, form a non-aromatic ring, provided that when E is  $(CR^5R^6)_m$ , and n is greater than 1 and m is 1, at least one of  $R^5$  and  $R^6$  is not hydrogen or a hydrocarbon, and when E = O or S,  $R^2$  is not H; [[and]]

wherein substituents on any one or more aromatic rings in the compound of formula (III) are selected from the group consisting of H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy; and

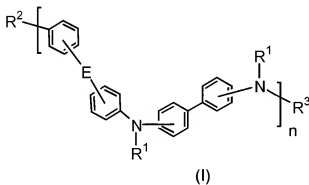
$R^1$  is different at each occurrence.

21 (original). An electronic device comprising at least one layer comprising at least one compound selected from the compounds of Claim 1 or Claim 9.

22 (original). The device of Claim 21, wherein the layer is a charge transport layer.

23 (original). The device of Claim 21, wherein the layer is a light-emitting layer.

24 (previously presented). A process for producing a polymer, comprising:  
(a) providing two or more compounds having the formulae (I) or (III):



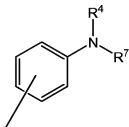
wherein:

n is an integer of at least 1;

$R^1$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms;

$R^3$  is selected from H and  $R^1$ ;

$R^2$  is selected from H,  $R^1$ , alkyl, fluoroalkyl, Cl, Br, I and an arylamino group of formula (II),

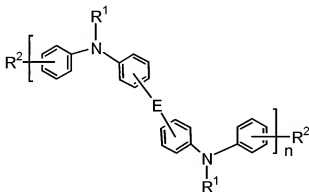


(II)

wherein  $R^4$  is selected from aryl, H,  $R^1$ , alkyl, and fluoroalkyl;  $R^7$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms, preferably up to 7 fluorine atoms; and

E is selected from O, S,  $(SiR^5R^6)_m$  wherein m is an integer of 1 to 20,  $(CR^5R^6)_m$  wherein m is an integer of 1 to 20, and combinations thereof, wherein  $R^5$  and  $R^6$  are each independently selected from H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy and wherein  $R^5$  and  $R^6$  can, when taken together, form a non-aromatic ring, provided that when E is  $(CR^5R^6)_m$ , and n is greater than 1 and m is 1, at least one of  $R^5$  and  $R^6$  is not hydrogen or a hydrocarbon

or

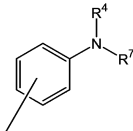


(III)

wherein



n is an integer of at least 1,  $R^1$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl and may be different at each occurrence;  $R^2$  is selected from H,  $R^1$ , alkyl, fluoroalkyl, Cl, Br, I and arylamino of formula (II)



(II)

$R^4$  is selected from aryl, H,  $R^1$ , alkyl, fluoroalkyl;  $R^7$  is selected from aryl, heteroaryl, fluoroaryl, and fluoroheteroaryl substituted with 1 or more fluorine atoms, preferably up to 7 fluorine atoms; and

E is selected from O, S,  $(SiR^5R^6)_m$  wherein m is an integer of 1 to 20,  $(CR^5R^6)_m$  wherein m is an integer of 1 to 20, and combinations thereof, and can be different at each occurrence, wherein  $R^5$  and  $R^6$  are each independently selected from H, F, alkyl, aryl, alkoxy, aryloxy, fluoroalkyl, fluoroaryl, fluoroalkoxy, and fluoroaryloxy and wherein  $R^5$  and  $R^6$  can, when taken together, form a non-aromatic ring, provided that when E is  $(CR^5R^6)_m$ , and n is greater than 1 and m is 1, at least one of  $R^5$  and  $R^6$  is not hydrogen or a hydrocarbon, and when E = O,  $R^2$  is not  $H_2$

(b) reacting said compounds in the presence of a copper, nickel, or palladium catalyst while maintaining said compounds at a temperature of 22°C to 150°C for 24 to 92 hours, to form a first polymer;

(c) treating said polymer with an endcapping group to form a capped polymer;  
and

(d) further reacting said capped polymer for 24 to 48 hours to produce said polymer.

25 (original). The device of Claim 21, wherein the device is selected from a light-emitting diode, a light-emitting diode display, a laser diode, a photodetector, photoconductive cell, photoresistor, photoswitch, phototransistor, phototube, IR-detector, photovoltaic device, solar cell, transistor or diode.